

**MANUFACTURING METHOD OF A DEVICE FOR
ATTENUATING A SIGNAL CARRIED BY AN OPTICAL
FIBER, ATTENUATION DEVICE, ATTENUATION
SYSTEM AND CORRESPONDING APPLICATIONS**

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ABSTRACT OF THE DISCLOSURE

10 An attenuation device for a signal carried by an
optical fiber in the form of a light signal is
manufactured. The optical cores of a first and a
second single-mode fiber are expanded. The first and
15 second fibers are assembled facing each other in a
capillary containing a liquid crystal. The liquid
crystal is polymerized to produce an attenuation
element. The resulting attenuation device comprises
a first and a second single-mode fiber with expanded
optical cores assembled facing each other in a
capillary containing a liquid crystal forming
attenuation means.